

US010492154B2

# (12) United States Patent Dick et al.

# (10) Patent No.: US 10,492,154 B2

# (45) **Date of Patent:** Nov. 26, 2019

# (54) POWER CONTROL FOR COMMUNICATIONS SYSTEMS UTILIZING HIGH SPEED SHARED CHANNELS

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 15/601,489

(22) Filed: May 22, 2017

(65) **Prior Publication Data** 

US 2017/0265152 A1 Sep. 14, 2017

#### Related U.S. Application Data

- (63) Continuation of application No. 14/658,398, filed on Mar. 16, 2015, now Pat. No. 9,661,593, which is a (Continued)
- (51) Int. Cl. H04W 52/54 (2009.01) H04W 52/12 (2009.01) (Continued)
- (58) **Field of Classification Search**CPC ... H04W 52/54; H04W 52/221; H04W 52/22;
  H04W 72/0406; H04L 1/16; H04L 1/1607
  See application file for complete search history.

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### (57) ABSTRACT

A method and apparatus are described for controlling transmitter power in a wireless communication system in which channels, including one or more shared channels, are utilized. A wireless transmit/receive unit (WTRU) may receive a control signal from a base station. The WTRU may also receive a transmit power command from the base station. Further, the WTRU may transmit a shared channel signal to another WTRU in a transmission time interval (TTI) based on the control signal. The transmission power level of the transmitted shared channel signal may be based on the received transmit power command. Also, the transmission power level may be further based on a measured pathloss. In addition, the WTRU may transmit a second channel signal to the another WTRU in a TTI, wherein a transmission power level of the transmitted second channel signal is derived from a measured pathloss and a received transmit power command.

## 20 Claims, 6 Drawing Sheets

